ARIUS
DIGITAL PIANO

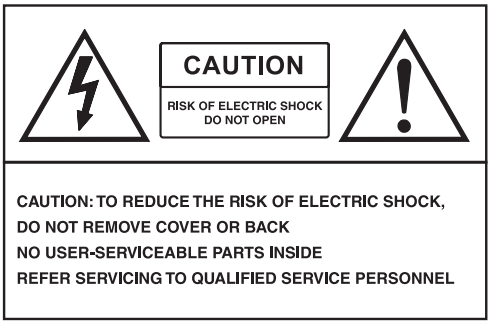
STN-2000
DIGITAL PIANO

User's Manual

We would like to express our appreciation, and congratulate you for purchasing this Williams Symphony digital piano. With proper care, this piano will provide you with years of musical enjoyment. Williams' advanced state of the art electronics are combined with an elegant cabinet that adds beauty and sophistication to any home environment. Some features include:

- Authentic acoustic piano feel
- Williams' acclaimed stereo imaging
- Acoustic instrument voices offering unmatched realism
- Metronome feature with variable tempo to facilitate practice
- 100 Auto-Accompaniment Styles
- Three track recorder that allows you to record and playback your performances
- Digital effects to further enhance the instrument voices
- 50 pre-recorded play-along songs with separate left hand/right hand
- MIDI In/Out and USB Connections
- Stereo line output and two headphone outputs
- Stereo line input and microphone input
- Sustain, soft, and Sostenuto pedals

You will find many more features and functions listed within this owner's manual. In order to make the most of your piano, we suggest that you take a few minutes to read this owner's manual, then save it for later reference.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER OR BACK
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

Important Safety Instructions

1) Do not use near water.
2) Clean only with dry cloth.
3) Do not block any ventilation openings.
4) Do not place near any heat sources such as radiators, heat registers, stoves, or any other apparatus (including amplifiers) that produce heat.
5) Do not remove the polarized or grounding-type plug.
6) Protect the power cord from being walked on or pinched.
7) Only use the included attachments/accessories.
8) Unplug this apparatus during lightning storms or when unused for a long period of time.
9) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

FCC Statements

FCC Statements

1. Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

    • Reorient or relocate the receiving antenna.
    • Increase the separation between the equipment and receiver.
    • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    • Consult the dealer or an experienced radio/TV technician for help.

Check the Package Contents

Tools required: phillips screwdriver

Ten M6X20 screws

Two 4X12 self-tapping screws

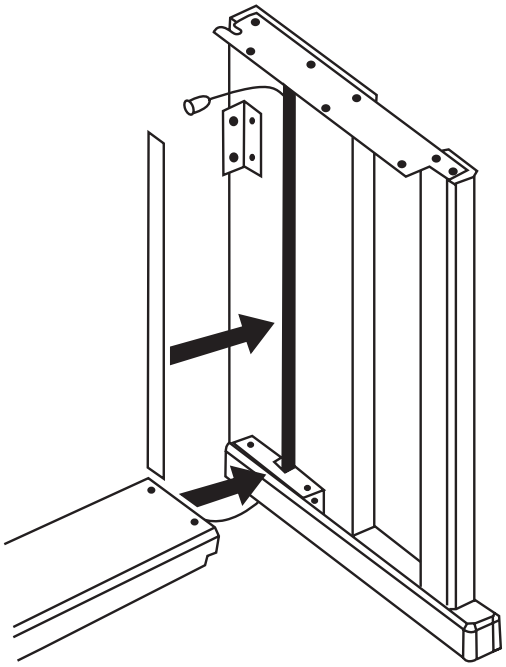
Four M6X15 screws

Six 4X16 self-tapping screws

Assembly

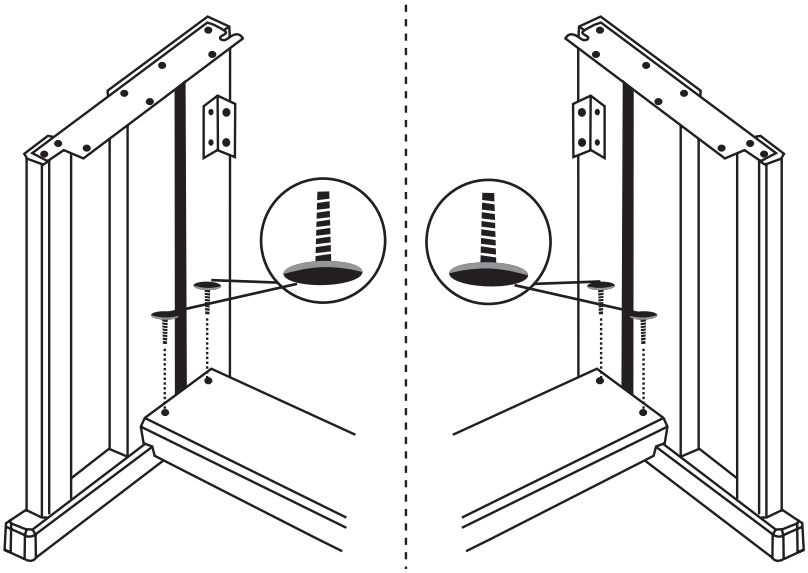
Laying the Pedal Cable

Take off the cable slot cover. Lay in the pedal cable from the pedal crossbar, then insert the cover.



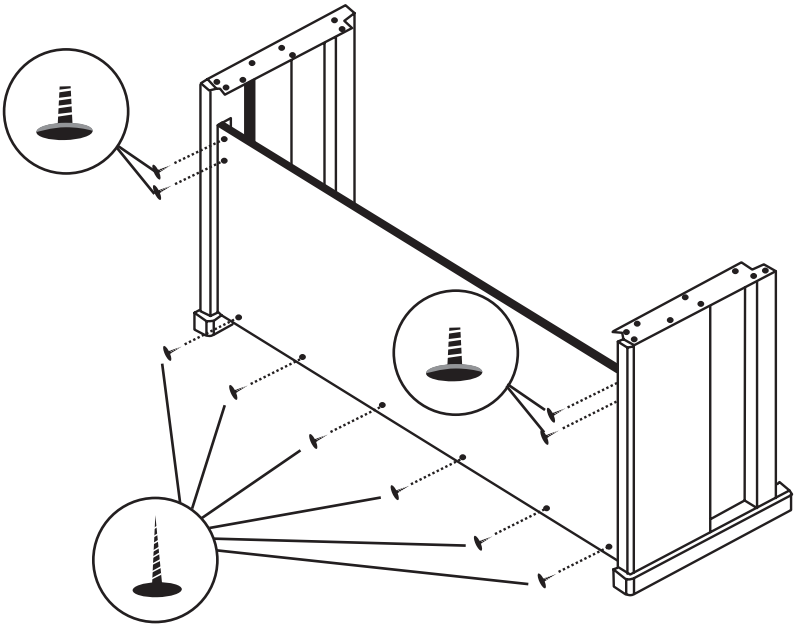
Cross Bar Installation

Attach the pedal crossbar to the leg with the M6X20 screws.



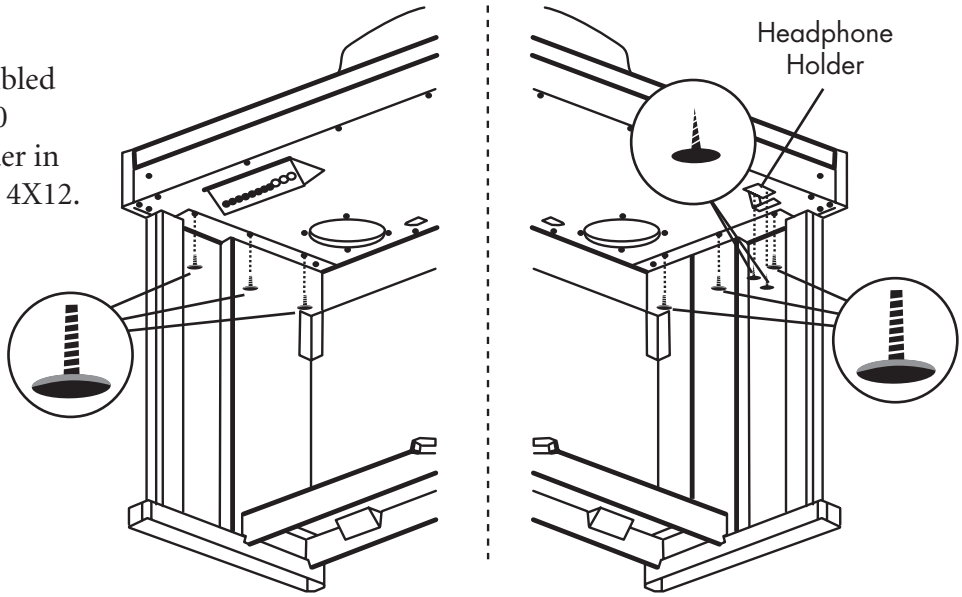
Backboard Installation

Attach the back board to the legs with M6X15 and 4X16 screws.



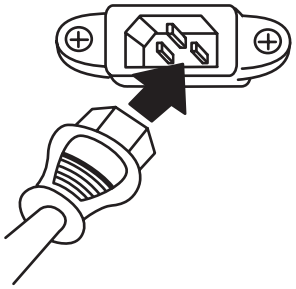
Final Installation

Place the piano body on the assembled stand and attach it with the M6x20 screws. Install the headphone holder in the proper location with the screw 4X12. Plug the pedal connector into the socket on the bottom.



Power Supply Connection

Plug the power cord into the receptacle located on the bottom of the piano. Plug the 3-pin plug into the socket and the other end of the cord to the AC wall outlet.



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Taking Care of Your Digital Piano

This ARIUS STN-2000 digital piano will supply you with years of musical enjoyment if you follow the suggestions listed below.

Service and Modification

This product should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Liquid has been spattered into the unit or it has been exposed to rain.
- The instrument does not appear to operate normally or exhibits a marked change in performance.
- The instrument has been dropped or the cabinet has been damaged.

Handling and Transport

- Never apply excessive force to the controls, connectors or other parts of the instrument.
- Always unplug cables by gripping the plug firmly, not by pulling on the cable.
- Disconnect all cables before moving the instrument.
- Physical shocks caused by dropping, bumping, or placing heavy objects on the instrument can result in scratches and/or more serious damage.
- Carefully check the amplifier volume control before playing. Excessive volume can cause permanent hearing loss.

Cleaning

- Clean the cabinet and panel with a soft, dry cloth. A wax based polish may be used on the cabinet, although rubbing with a soft cloth will usually suffice. Do not use paint thinner or petrochemical based polishes.
- To maintain the luster of the keys and buttons wipe with a clean, lightly dampened cloth, and then polish with a soft, dry cloth.

Location

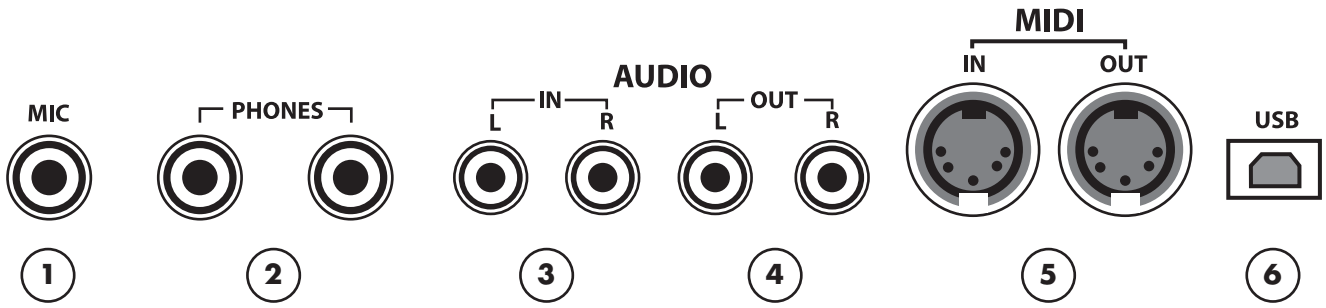
- To avoid deformation, discoloration, or more serious damage, do not expose the instrument to the following conditions: Direct sunlight, high temperatures, excessive humidity, excessive dust, strong vibration.
- Leave enough space around the piano for proper ventilation.
- This instrument contains digital circuitry and may cause interference if placed too close to radio or television receivers. If interference occurs, move the instrument further away from the affected equipment.
- Avoid placing vinyl objects on top of the instrument, vinyl can stick to and discolor the surface.

Power

- Turn the power switch off when the instrument is not in use.
- To avoid damage to the instrument and other devices to which it is connected, turn the power switches of all related devices off prior to connecting or disconnecting MIDI cables.
- Turn the power off if the main cable is damaged, or the instrument is spattered with liquid.
- Do not switch the unit on and off in quick succession, this places an undue load on the electronic components.
- Unplug the AC power cord during an electrical storm.
- Avoid plugging the AC adaptor into the same AC outlet as appliances with high power consumption, such as electric heaters or ovens.

Connector Panel

This connector panel, with its various jacks, is located underneath the keybed.



1. **MICROPHONE:** Plugging in a microphone will allow you to sing along while you play piano.

2. **PHONE 1 / PHONE 2:** You can play in total silence without disturbing others by plugging a set of headphones into one of the appropriate sockets. When headphones are plugged into either of these jacks the main speaker system is turned off. Two sets of headphones may be used simultaneously.

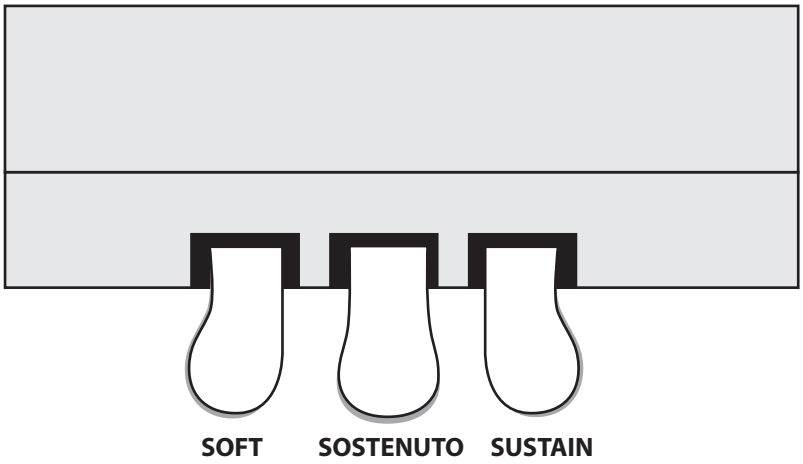
3. **LINE IN:** These stereo audio input jacks will amplify the supplied signal through the internal sound delivery system. They can be used to hook up items such as CD players, MP3 player or cassette players.

4. **LINE OUT:** These stereo audio output jacks supply the piano's output signal to external amplification devices such as home stereo, PA system, or other stand alone amplifiers.

5. **MIDI IN / MIDI OUT:** The STN-2000 provides **MIDI IN** and **MIDI OUT** ports. MIDI allows communication with other products equipped with MIDI interfaces. Please see the MIDI section of this manual for further details.

6. **USB:** The USB connector allows you to connect the STN-2000 piano directly to your computer. It can be connected without driver installation under the Windows XP & MAC OSX environment. The STN-2000 will be recognized as USB Audio device to receive and transmit MIDI messages.

Pedals



Soft Pedal

When the left pedal is engaged the piano volume is reduced and the timbre slightly altered on the notes that are played.

Sostenuto Pedal

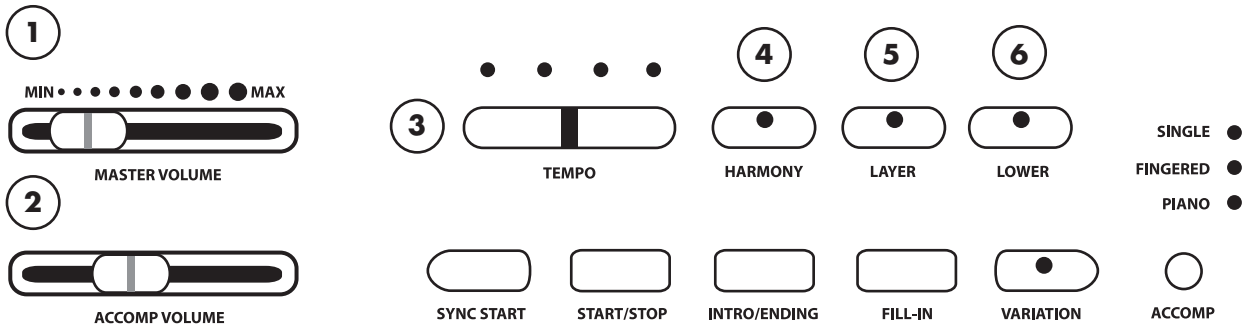
When the center pedal is engaged, the keys that were already held down will continue to sustain and the notes will decay gradually after they are released. Other keys that are played after the pedal has been pressed are not affected.

Sustain Pedal

When the right pedal is engaged the piano keys will continue to sustain as they are played. The piano notes will decay gradually as if you were continuing to hold down the piano keys.

Panel Controls

The control panel is divided into several distinct sections. The following is a brief description of all the features located on the control panel.



1. **MASTER VOLUME:** Use this sliding control button to adjust the overall volume of the keyboard.

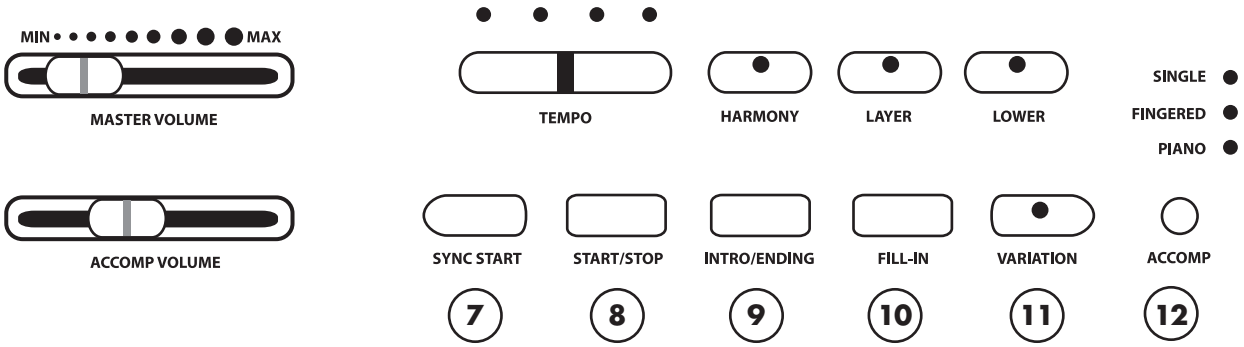
2. **ACCOMPANIMENT VOLUME:** Slide this controller to adjust the volume of the auto accompaniment only, the keyboard instrument voice will not be affected. It also controls the Metronome volume level.

3. **TEMPO:** Press one of the **TEMPO** buttons, the current tempo value will appear on the display. You can use the **TEMPO +**, **TEMPO –** buttons to change the tempo value range from 40 to 240 bpm (beats per minute). Press the **TEMPO +** or **TEMPO –** buttons simultaneously to recall the default tempo setting for the selected rhythm style. After three seconds the display will revert to the selected voice.
   NOTE: There is a four-dot beat indicator above the tempo buttons. It indicates the accompaniment tempo and beat.

4. **HARMONY:** When selected, a single note played on the right-hand section of the keyboard will activate additional auto harmony notes when the auto accompaniment is engaged. The harmony type selection is assigned in the Function menu.

5. **LAYER:** Engaging the **LAYER** button places the keyboard in the layer mode. Layer, or dual, refers to an additional voice that is "tone mixed" with the selected keyboard voice. The assigned layer voice will be heard with the original voice. To select a new layered instrument voice, use the **+YES** or **-NO** buttons within 4 seconds after the **LAYER** button has been engaged.

6. **LOWER:** With the Lower feature engaged, the keyboard operates in the "split" mode. In the Lower mode, the keyboard is divided into two sections. In the right-hand section, the original or layered voice will sound, and in the left-hand section a different voice can be assigned to sound when the keys are played. To select a new Lower instrument voice, use the **+YES** or **-NO** buttons within 4 seconds after the **LOWER** button has been engaged.



7. **SYNC START:** Synchronized Start sets the auto accompaniment into standby mode. When the **SYNC START** button is pressed, the four indicator LEDs above the Tempo buttons will flash to the tempo of the selected rhythm style. The rhythm style will start as soon as you play in the auto accompaniment section of the keyboard. The auto accompaniment will start with the first recognized chord played in the auto accompaniment section of the keyboard, depending on which fingering mode is selected.

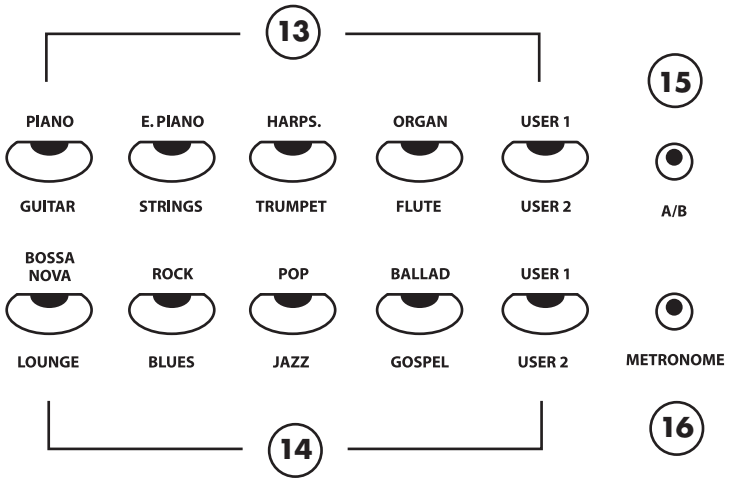
8. **START/STOP:** This button starts or stops the selected rhythm style. The auto accompaniment will start with the first recognized chord played in the auto accompaniment section of the keyboard, depending on the fingering mode selected.

9. **INTRO/ENDING:** The 100 rhythm styles can be started or finished with an individual introduction or ending pattern. When Intro/Ending is engaged, an introductory rhythm pattern will start followed by the main pattern. With a rhythm or accompaniment pattern already engaged, the accompaniment can be completed with an ending pattern from the next measure by pressing the **INTRO/ENDING** button.

10. **FILL IN:** The fill-in provides the accompaniment with a short rhythm pattern of one or two measures for each style. To add a fill-in, press the **FILL IN** button at any time while the accompaniment is playing.

11. **VARIATION:** The 100 rhythm styles include a style variation that can be played simply by engaging the **VARIATION** button. Press the **VARIATION** button again to return to the main pattern.

12. **ACCOMPANIMENT:** Each rhythm style has fully orchestrated auto accompaniment patterns. These accompaniments are dedicated to the selected rhythm style, and will create drums, bass and chord accompaniments. The **ACCOMPANIMENT** button selects the auto accompaniment mode. The auto accompaniment fingering modes are single, fingered, piano, and off. Press the **ACCOMPANIMENT** button until the indicator LED turns on.



13. QUICK SELECT VOICE BUTTONS

Each Voice button controls two voices, one in the A bank (printed above the voice button) and one in the B bank (printed below the voice button) for a total of 10 Quick Select voices (8 Presets and 2 User-defined). Please see the Keyboard Voices section of this manual for more information.

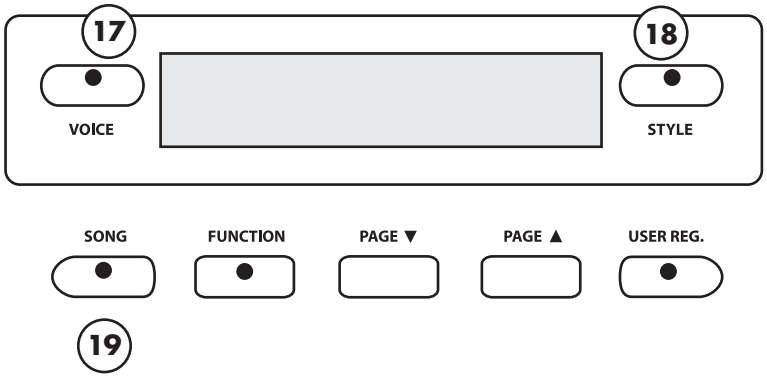
14. QUICK SELECT STYLE BUTTONS

Each Style button controls two styles, one in the A bank (printed above the style button) and one in the B bank (printed below the style button) for a total of 10 Quick Select styles (8 Presets and 2 User-defined). Please see the Rhythm Styles section of this manual for more information.

15. A/B BUTTON

Press the A/B (Above/Below) to alternate between A and B banks for Voice or Style Quick Select. The A/B button indicator is lit when the B bank is selected.

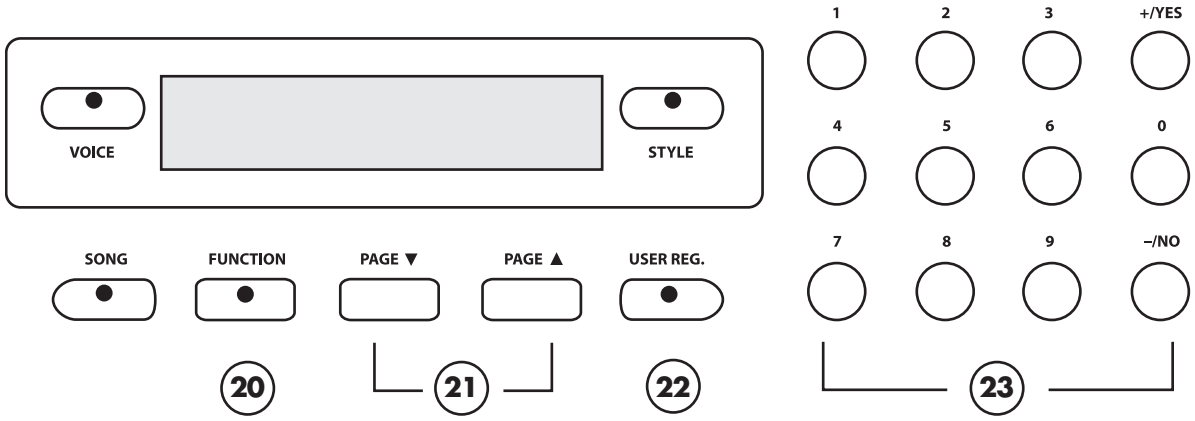
16. METRONOME: Press the **METRONOME** button to engage the built-in metronome. Use the **+YES** and **–NO** buttons within three seconds after the metronome has been engaged to select the beat of your choice: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8 or 12/8.



17. VOICE: There are 128 GM (General MIDI) instrument voices, plus ten Asian folk instrument voices available on this piano. You can instantly select an instrument voice by pressing one of the voice select buttons. Or, when the voice button is engaged, you can use the number pads to select a voice. The voice name and its number will be shown on the display. There is a complete list of all 138 voices listed in the back of the manual. Please see the Voice section for more information.

18. STYLE: To engage one of the 100 rhythm styles and the corresponding auto accompaniment, press one of the rhythm style buttons or press the **STYLE** button to engage the style selection mode. While its indicator LED is lit, use the number pads to select a style. The style name and its number will be shown on the display. There is a complete list of all 100 rhythm accompaniment styles listed in the back of the manual. Please see the Rhythm section of this manual for more information.

19. SONG: This "music teacher" feature can be used as a learning aid to the 50 songs built into this piano. The **SONG** button turns the music teacher function on and off. Please see the Play-Along Songs section of this manual for more information.

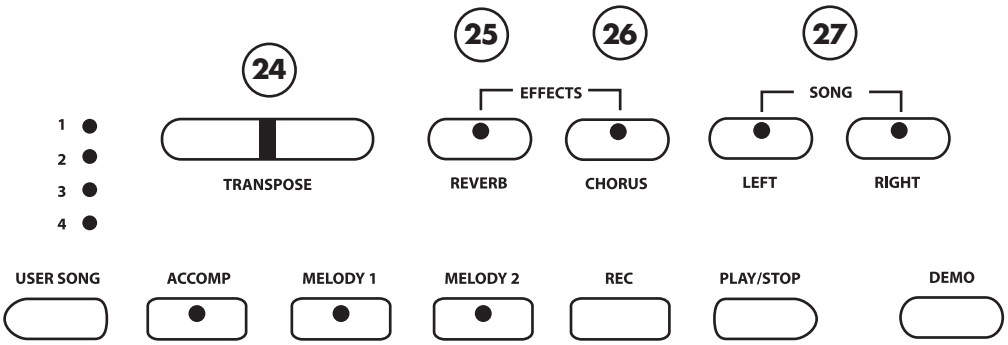


20. FUNCTION: The **FUNCTION** button is used to access the function menu. The function menu can be used to adjust or change the parameters of a number of settings: reverb level, chorus level, touch, split point for voice, auto accompaniment split point, tuning, drum kit selection and the auto harmony type. Please see the Function section of this manual for more information.

21. PAGE: The **PAGE** buttons (up and down) are used to access the different menus in the Function feature. When the **FUNCTION** button has been pressed, use the **PAGE UP** and **PAGE DOWN** buttons to access the Function menu selections.

22. USER REG: Registration is used to store keyboard settings. Press the **USER REG** button to engage the registration memory mode. Press one of the numeric buttons 1-9 and the stored setting will be recalled instantly. Please see the Registration Memory section of the manual for more information.

23. NUMERIC PAD: Use the **+/YES**, **–/NO** or the numeric pad to input numbers directly while using the voice, style or function settings. These buttons are also used to access or alter many of the function features or wherever numerical input is necessary.

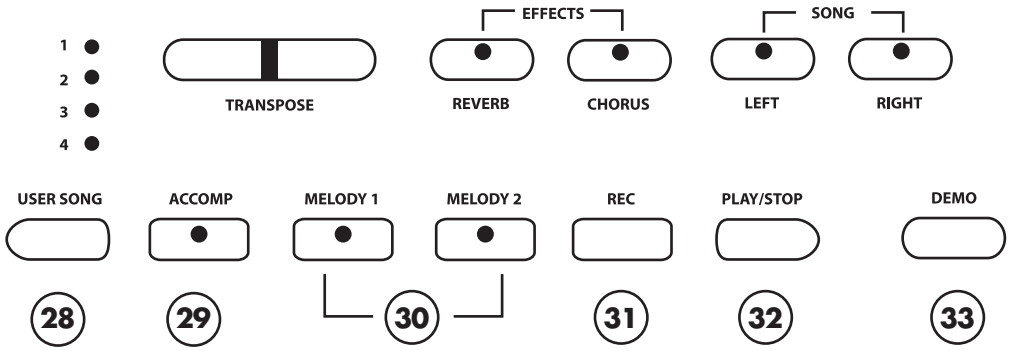


24. TRANSPOSE: The transpose feature can shift the pitch of the keyboard up or down in semitone intervals up to a maximum of 24 semitones. Press one of the **TRANSPOSE** buttons and the current transpose value will appear on the display. Use the **TRANSPOSE +** or **TRANSPOSE –** buttons to set the transpose value range from –12, one octave lower, to 12, one octave higher. Press the + and – value buttons simultaneously to recall the default value of 0. After three seconds the display will return to the currently selected instrument voice. Transpose does not affect notes that are currently playing. Transpose does not affect the keyboard percussion.

25. REVERB: Reverb simulates the effect of playing in a big room or hall where the sound reverberates off the walls and ceiling. The reverb effect is engaged automatically when the power is turned on. Press the **REVERB** button to turn off the reverb effect. You can switch the reverb feature on and off by pressing the **REVERB** button. The reverb setting does not affect the auto accompaniment. Reverb depth can be changed in the Reverb Level function menu. Please see the Function Section for more information.

26. CHORUS: The Chorus effect adds depth and spaciousness to the selected keyboard voice. Press the **CHORUS** button to engage the chorus effect and the indicator will light up. Press the button again to turn off the chorus effect. The chorus setting does not affect the auto accompaniment. Chorus depth can be changed in the Chorus Level function menu. Please see the Function Section for more information.

27. SONG LEFT , SONG RIGHT: These buttons are used in conjunction with the **SONG** button. It allows the player to play along with the prerecorded songs contained within this piano. The **SONG LEFT** button will play the right hand of the selected song, so that the user can practice the left hand portion of the song. The **SONG RIGHT** button will play the left hand of the selected song, so that the user can practice the right hand portion of the song. When engaging the **SONG LEFT** and **SONG RIGHT** buttons simultaneously only the rhythm part (if available) will be heard. The user can now play both the left and right portions of the selected song. Please see the Play-Along Song section of this manual for more information.



28. USER SONG: The STN-2000 is able to record four songs, each with a 3-track sequencer. It will record all note events and the accompaniment patterns exactly as they are performed. This recorded information will not be lost when the power is turned off. The **USER SONG** button accesses one of the four available user songs settings for recording or playback. Please see the Recorder section of this manual for more information.

29. ACCOMPANIMENT TRACK: The **ACCOMP** button is used to select the auto accompaniment track of a song for recording or playback. Please see the Record section of this manual for more information.

30. MELODY TRACKS: There are two tracks for recording melody, which are assigned by the **MELODY 1** and **MELODY 2** buttons. Please see the Record section of this manual for more information.

31. RECORD: To prepare for recording, hold down the **REC** button and press the **TRACK** button(s) you want to record in. Please see the Record section of the manual for more information.

32. PLAY/STOP: Press the **PLAY/STOP** button to hear selected tracks that you have recorded. Press the **PLAY/STOP** button again to stop the playback. Please see the Recorder section of this manual for more information.

33. DEMO: The STN-2000 has ten different demonstration songs. Press the **DEMO** button. The first demo song will play back instantly. To access an individual demo song press the **+/YES** or **–/NO** buttons when the Demo Feature is engaged. All songs will play repeatedly until you press the **DEMO** button again to stop the song demonstration.

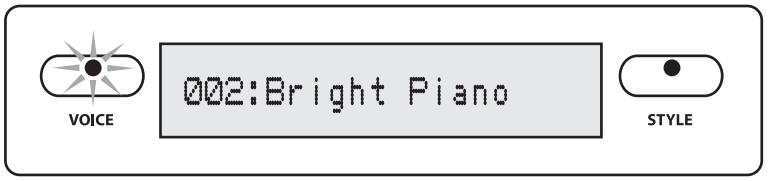
Keyboard Voices

The STN-2000 Synthony offers 128 GM voices in 16 groups plus 10 Asian ethnic folk instrument voices.
A complete list of all 138 voices can be found in the back of this manual.

Voice Selection

SELECTING ONE OF THE 138 VOICES

1. If the Voice mode indicator is not already lit, press the **VOICE** button to engage the voice selection mode. The indicator will light up.

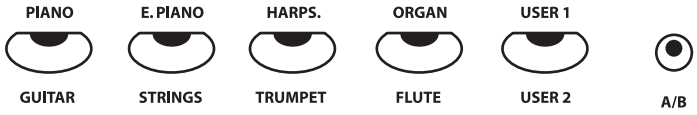


2. Use the numeric pad or the **+/YES**, **–/NO** buttons to select a voice number. The voice name and its number will be shown on the display.

NOTE: When using the number pads, you must enter three digits to select a voice number from 001-138. For example, to select voice No. 2 you must enter "002". Please refer to the back of the manual for a list of all available voices.

QUICK SELECT

Each Voice button controls two voices, one in the A bank (printed above the voice button) and one in the B bank (printed below the voice button) for a total of 10 Quick Select voices (8 Presets and 2 User-defined).



To recall a Quick Select voice:

1. Press the **A/B** (Above/Below) button to select a bank. Selection alternates between A and B banks every time the **A/B** button is pressed. The **A/B** button is lit when the B bank is selected.
2. Now press one of the five Quick Select voice buttons to select the desired voice. The voice name and number will be shown on the display.

USER DEFINED QUICK SELECT BUTTON - VOICE

You can assign your 2 favorite voices to the voice Quick Select button in the following manner:

1. Press the voice **USER** button (selects USER 1 for bank A, or USER 2 for bank B).
2. Select the desired voice by using the numeric pad or the **+/YES**, **–/NO** buttons.
3. Press another Quick Select voice button.
4. The last selected voice will be assigned to the **USER** button to be available for quick selection.

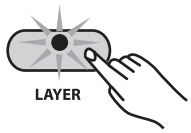
NOTE: The USER button will revert to the default setting when the power is turned off. (USER 1=012: Vibraphone, USER 2=092: Choir Pad)

Layer (Dual) Voice

Layer, or dual, refers to an additional voice that is "tone mixed" with the originally selected keyboard voice. The assigned layer voice will be heard with the original voice when the layer feature is engaged.

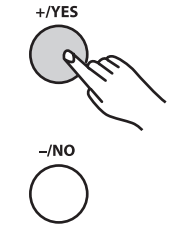
TO USE THE LAYER FUNCTION

1. Press the **LAYER** button, the currently assigned layer voice will be shown on the display, and the LED indicator will turn on.

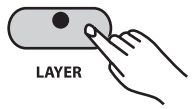


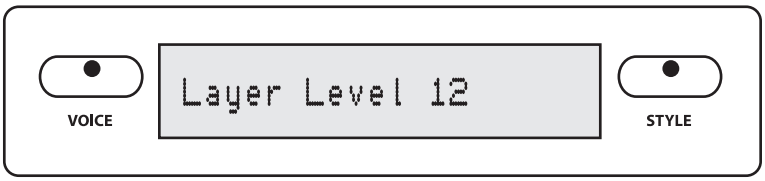
2. Use the **+/YES**, **–/NO** buttons or the quick select voice buttons to select the desired Layer voice.

NOTE: The LCD display will show the layer voice number and name, and after three seconds the display will revert to the originally selected main voice. Select the **+/YES**, **–/NO** *buttons or the Quick Select Voice Buttons within the three second period that the layer voice is displayed*



3. Press the **LAYER** button a second time and the current layer volume level will show on the display LCD. While the layer volume screen is displayed, use the **+/YES** or the **–/NO** buttons to raise or lower the volume of the selected layer instrument voice. The LCD display screen will show the volume setting.





NOTE: This layer volume setting will be displayed on the LCD screen for three seconds. The LCD display will revert to the originally selected main instrument voice after three seconds.

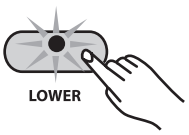
4. Press the **LAYER** button again to turn the **LAYER** function off.

Lower (Split) Voice

In the lower, or split, mode the keyboard is divided into two separate sections. To the right of the split point, the currently selected main voice, or the layered and main voice will sound. The keys to the left of the split point can play a different instrument voice.

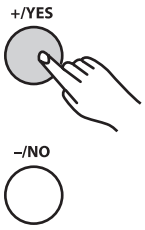
TO USE THE LOWER FUNCTION

1. Press the **LOWER** button, the currently assigned lower voice will be shown on the display, and the LED indicator will turn on.

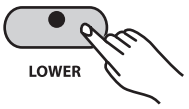


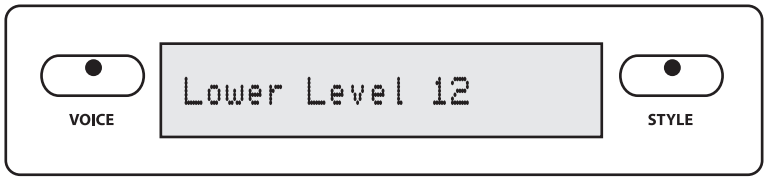
2. Use the **+/YES, –/NO** buttons or the quick select voice buttons to select the desired lower voice.

NOTE: The LCD display will show the lower voice number and name, and after three seconds the display will revert to the originally selected main voice. You must select the **+/YES, –/NO** *buttons or the quick select voice buttons within the three second period that the lower voice is displayed.*



3. Press the **LOWER** button a second time and the current lower volume level will show on the display LCD. While the lower volume is displayed, use the **+/YES** or the **–/NO** buttons to raise or lower the volume of the selected lower instrument voice. The LCD display screen will show the volume setting.





NOTE: This lower volume setting will be displayed on the LCD screen for three seconds. The LCD display will revert to the originally selected main instrument voice after three seconds.

4. Press the **LOWER** button again to turn off the lower function.

ASSIGNING THE SPLIT POINT FOR VOICE

The keyboard is split into two sections at the split point. The default split point is the C3 key for voice. A different voice split point can be assigned in the Function menu "Split Point." Please see the Function section of this manual for more information.

Rhythm Styles

The STN-2000 offers 100 accompaniment rhythm styles to choose from. There is a complete list of all 100 styles in the back of this manual. Each rhythm style includes 6 patterns: introduction, main, fill-in x 2, variation and ending. In addition to the Drum part, the rhythm styles can provide a fully orchestrated accompaniment with bass, chords and additional instruments.

Style Selection

SELECTING ONE OF THE 100 STYLES

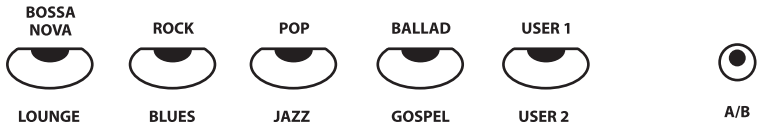
1. If the Style mode indicator is not already lit, press the **STYLE** button to engage the style selection mode. The indicator will light up.

2. Use the numeric pad or the **+/YES**, **–/NO** buttons to select a style number. The style name and its number will be shown on the display.

NOTE: When using the number pads, you must enter two digits to select a style number from 00-99. For example, to select style No. 4 you must enter "04." Please refer to the back of the manual for a list of all available styles.

QUICK SELECT

Each Style button controls two styles, one in the A bank (printed above the style button) and one in the B bank (printed below the style button) for a total of 10 Quick Select styles (8 Presets and 2 User-defined).



To recall a Quick Select style:

1. Press the **A/B** (Above/Below) button to select a bank. Selection alternates between A and B banks every time the **A/B** button is pressed. The **A/B** button is lit when the B bank is selected.
2. Now press one of the five Quick Select style buttons to select the desired rhythm. The style name and number will be shown on the display.

USER DEFINED QUICK SELECTION BUTTON

You can assign your two favorite rhythm styles to the style quick select button in the following manner:

1. Press the style **USER** button (selects USER 1 for bank A, or USER 2 for bank B).
2. Select the desired style by using the numeric pad or the **+/YES**, **–/NO** buttons.
3. Press another Quick Select style button
4. The last selected style will be assigned to the **USER** button to be available for quick selection.

NOTE: The USER button will revert to the default setting when the power is turned off. (USER 1=82: Kids 1, USER 2=32: Folk 2)

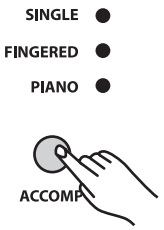
Auto-Accompaniment

In addition to the Drum part, the rhythm styles can provide a fully orchestrated accompaniment with bass and additional instruments, following the chords played on the keyboard.

Auto-Accompaniment Split Point

For auto-accompaniment, the keyboard is divided into two sections at the "Auto A.Split" point. The keys to the left of this point are defined as the accompaniment section of the keyboard. The default key for this point is G1. A different split point for the auto-accompaniment can be assigned in the Function menu. Please see the Function section of this manual for more information.

Auto-Accompaniment Chord Fingering



The STN-2000 has three auto-accompaniment chord fingering modes. Press the **ACCOMP** button until the indicator light for the desired Fingering mode is selected.

When all three accompaniment mode indicators are off, the auto-accompaniment function is disengaged and only the Drum part of the rhythm styles will play.

SINGLE MODE
Single mode makes it easy to produce four types of orchestrated accompaniment chords using a minimum number of fingers (one, two, or three fingers at the most). In this mode, playing keys in the accompaniment section of the keyboard can generate:
Major Chord: Press any key in the auto-accompaniment section of the keyboard. The key you press determines the root note of the major chord.
Minor Chord: Press the root key and any black key to its left simultaneously.
Seventh Chord: Press the root key and any white key to its left simultaneously.
Minor-Seventh Chord: Press the root key and any pair of black and white keys to its left simultaneously.

FINGERED MODE
The fingered mode is ideal if you already know how to play chords on the keyboard. It allows you to play the chords in the auto-accompaniment section of the keyboard to produce the selected auto-accompaniment pattern. The Fingering Guide table at the back of this manual lists all of the 31 recognizable chords of this mode.
NOTE: If a chord played cannot be recognized, the previous chord will keep playing.

PIANO MODE
When the Piano chord fingering mode is engaged, you may enter chords anywhere on the keyboard. You are not limited to the auto-accompaniment section. In this mode, there is no keyboard split point function for chord recognition.

MANUAL BASS CHORD
When the Single or Fingered modes are engaged, you may play individual keys in the auto-accompaniment section of the keyboard. The voice on this section of the keyboard will be a layered bass and chord voice determined by the current style. This is a split voice mode, with the right hand playing the main voice.

Using the Auto-Accompaniment

Each rhythm style includes 6 patterns: an introduction, a main pattern and a variation pattern, two fill-ins and an ending.

VARIATION
Press the **VARIATION** button to toggle between the main and variation patterns. The indicator will light up when Variation is selected.

There are several ways to start the rhythm style:

STRAIGHT START
Pressing the **START/STOP** button immediately starts the Drum part of main or variation pattern, depending on the status of the **VARIATION** button. If one of the chord fingering modes is engaged, the additional parts of the auto-accompaniment will start as soon as a chord is recognized, according to the selected chord fingering mode.

STARTING WITH AN INTRODUCTION
All of the 100 styles can be started with an introduction pattern. Pressing the **INTRO/ENDING** button immediately starts the Drum part of the introduction pattern, followed by either the main or variation pattern, depending on the status of the **VARIATION** button. If one of the chord fingering modes is engaged, the additional parts of the auto-accompaniment will start as soon as a chord is recognized, according to the selected chord fingering mode.

SYNCHRONIZED START
Synchronized Start allows you to start the rhythm style by playing on the keyboard. Press the **SYNC START** button, all four beat indicator dots above the **TEMPO** buttons will blink at the preset tempo for the current style, showing that the synchronized start mode is on standby. The tempo can be adjusted while on standby, using the **TEMPO +/-** buttons.

You may add an introduction by pressing the **INTRO/ENDING** button after pressing the **SYNC START** button. If any of the chord fingering modes is engaged, the complete auto-accompaniment will start as soon as a chord is recognized. If the Auto-accompaniment function is disengaged, only the Drum part of the rhythm style will start as soon as you play any key in the accompaniment section of the keyboard.

FILL-IN
Pressing the **FILL-IN** button will insert a short rhythmic pattern of one to two measures in length. Each style has two different fill-in patterns, depending on the status of the **VARIATION** button. Holding down the **FILL-IN** button will extend the fill indefinitely.
NOTE: The FILL-IN button can also be used in place of the INTRO/ENDING button to start playing with a fill-in pattern instead of the introduction.

STOPPING
While a rhythm style is playing, press the **START/STOP** button to stop the accompaniment immediately, or press the **INTRO/ENDING** button to finish with an ending pattern.
NOTE: If you want the selected rhythm style to continue after the ending pattern has been completed, press the FILL IN button while the ending pattern is playing.

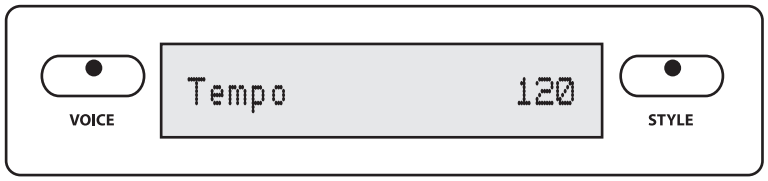
Auto Harmony

With the Harmony feature engaged, a single note on the right-hand section of the keyboard will sound with additional auto harmony notes depending on the chords played in the accompaniment section of the keyboard. The note played in the right-hand section of the keyboard determines the root key of the harmony. It is recommended that only one note be played at a time. If more than one note is played only the highest note will add harmony.
NOTE: Auto Harmony is only available when the auto-accompaniment is playing.

Press the **HARMONY** button to turn the feature on and off. There are four harmony types that can be selected, duet, close harmony, open harmony, and octave. The harmony type selection is assigned in the Function menu. Please see the Function section for more information.

Adjusting the Tempo

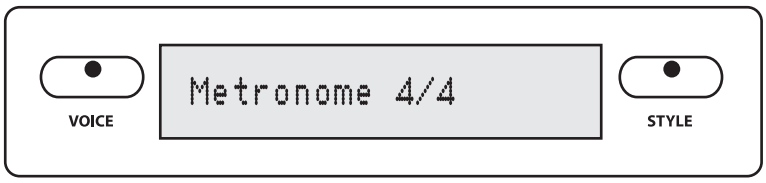
The four-dot indicator above the **TEMPO** buttons indicates the tempo and the beat for the accompaniment playing. Each style has its own preset tempo. The tempo can be adjusted before or during rhythm style play by pressing either of the **TEMPO +/-** buttons. The current tempo will be shown on the display for 3 seconds. During that time, you can also use the number pad to enter a new tempo value between 40 and 240.



If you change the style before playing, the tempo will be set to that style's default value. If you change style during play, the tempo will keep its current value. Press the **TEMPO +/-** buttons simultaneously to reset the tempo to the default value of the current style.

Metronome

The STN-2000 includes a built-in metronome. Press the **METRONOME** button to start the metronome. Its LED indicator will light up and the "Metronome" menu will appear on the display. Use the **+/YES** and **–/NO** buttons within three seconds after the metronome has been engaged to choose the beat pattern: 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 6/8 or 12/8. After three seconds, the display will revert to the selected Voice. Use the **ACCOMP VOLUME** slider to adjust the metronome level. Use the **TEMPO +/-** buttons to adjust the tempo of the metronome. The current tempo will be shown on the display for 3 seconds. During that time, you can also use the number pad to enter a new tempo value between 40 and 240. Press the **METRONOME** button again to stop the metronome.



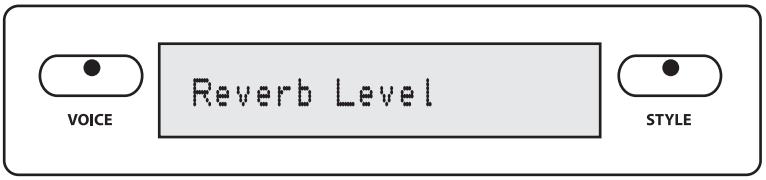
If you select a new accompaniment style or play a practice song, the beat and tempo of the metronome will be set automatically to the beat and tempo of that style/song.
NOTE: If the metronome is enabled while the auto-accompaniment is playing, the metronome sound will replace the Drum part of the accompaniment style.

Functions

The Function mode is used to set up or to adjust various parameters related to the operation of this keyboard. With the **FUNCTION** button engaged, you may access the menu for the Reverb level, Chorus level, Touch sensitivity, Lower Split point for voice, Split point for auto accompaniment, master tuning, the Drum Kit selection, and Harmony type selection.

Reverb Level Setting

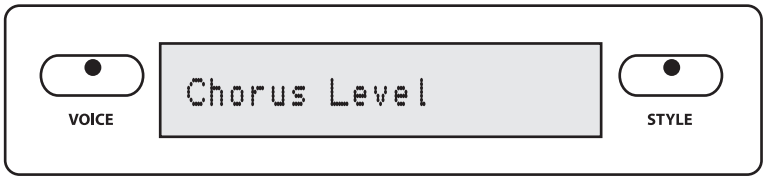
Reverb simulates the effect of playing in a big room or hall where the sound reverberates off the walls and ceiling. The reverb effect is engaged automatically when the power is turned on. You can switch the reverb feature on and off by pressing the **REVERB** button. Select the level of reverb from the Function menu.



1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Reverb Level" menu appears.
3. Press the **+/YES** button and the current reverb level will be shown.
4. Use the **+/YES** button to increase the reverb level or the **–/NO** buttons to decrease the level. The number pad can also be used to directly enter a value ranging from 01-16. Press the **+/YES**, **–/NO** buttons simultaneously to recover the default setting of 12.
5. Press the **FUNCTION** button again to exit the function setting mode.

Chorus Level Setting

The Chorus effect enriches your selected instrument voice by adding depth and texture. Press the **CHORUS** button to engage the chorus effect. Adjust the level of chorus in the Function menu.

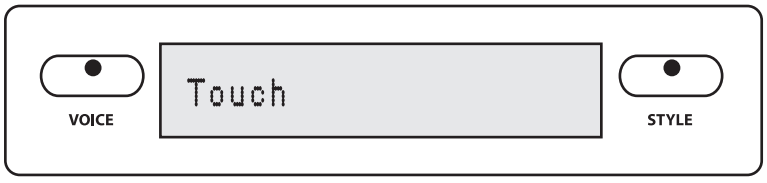


1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Chorus Level" menu appears.
3. Press the **+/YES** button to confirm your selection and the current Chorus level will be shown.
4. Use the **+/YES** to increase the chorus level or the **–/NO** buttons to decrease the level. The number pad can also be used to directly enter a value ranging from 01-16. Press the **+/YES**, **–/NO** buttons simultaneously to recover the default setting of 08.
5. Press the **FUNCTION** button again to exit the function setting mode.

Touch Response Setting

The STN-2000 offers four types of keyboard touch sensitivity settings, soft, normal, hard, and fixed. These are also known as velocity settings and are designed to suit your style of playing. The Normal setting is selected automatically when the piano is turned on. The touch response can be changed with the function feature.

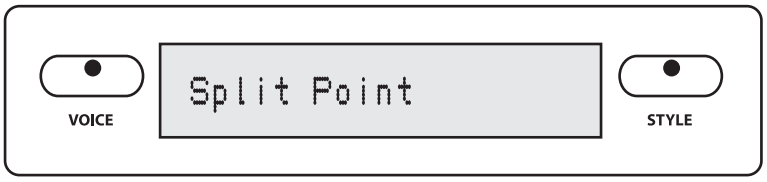
Soft is the most sensitive keyboard response which permits maximum sound levels with a light touch.
Normal is an intermediate response suitable for most styles of music. Normal is the default setting.
Hard is a less sensitive keyboard response which requires a heavier touch to obtain maximum sound levels.
Fixed does not offer any touch sensitivity. Each key plays at full volume no matter how hard the piano key is hit. It is commonly used on Harpsichord and Organ voices.



1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Touch" menu appears.
3. Press the **+/YES** button to confirm your selection. The current touch response setting will be shown.
4. Use the **+/YES**, **–/NO** buttons to select a touch response.
5. Press the **FUNCTION** button again to exit the function setting mode.

Changing the Split Point for Lower Voice

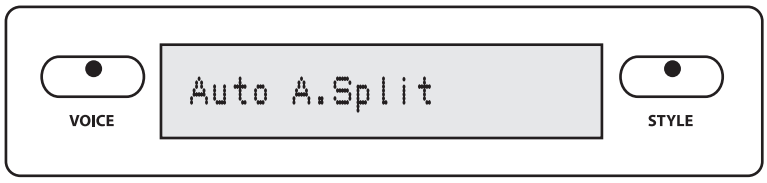
When the lower mode is engaged, the keyboard is divided into two parts at the split point. In the right-hand section the original or (Upper voice) will sound. In the left-hand section, a new instrument voice can be assigned. The split point for the Lower section can be changed in the Function menu.



1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Split Point" menu appears.
3. Press the **+/YES** button to confirm your selection and the current voice split point will be shown.
4. Use the **+/YES** button to shift the split point up the keyboard to the right, and the **–/NO** button to shift the split point down the keyboard to the left, from G1–C7. Press the **+/YES**, **–/NO** buttons simultaneously to recover the default setting of C3.
5. Press the **FUNCTION** button again to exit the function setting mode.

Changing the Split Point for Auto Accompaniment

The split point that defines the accompaniment section of the keyboard can also be changed in the function menu.

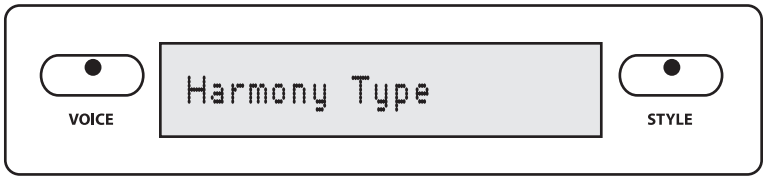


1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Auto A. Split" menu appears.
3. Press the **+/YES** button to confirm your selection and the current auto accompaniment split point will be shown.
4. Use the **+/YES** button to shift the split point up the keyboard to the right, and the **–/NO** button to shift the split point down the keyboard to the left, from AO–C3. Press the **+/YES**, **–/NO** buttons simultaneously to recover the default setting of G1.
5. Press the **FUNCTION** button again to exit the function setting mode.

Auto Harmony Type Selection

When the **HARMONY** button is engaged, a single note on the right-hand section of the keyboard will be heard with additional auto harmony notes when the auto accompaniment is playing. There are four types of harmonies that can be selected.

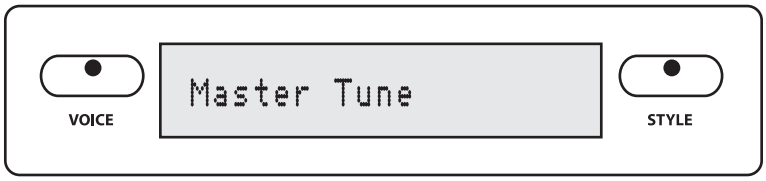
Duet adds a harmonizing note sounding below the single right-hand note that you supply when the chord accompaniment is playing.
Close harmony adds two harmonizing notes sounding below the single right-hand melody note that you supply when the chord accompaniment is playing.
Open harmony adds several harmonizing notes when the chord accompaniment is playing.
Octave adds a note one octave below the note in the right-hand section of the keyboard when the chord accompaniment is playing.



1. Press the **FUNCTION** button, then the **+/YES** button to confirm.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Harmony Type" menu appears.
3. Press the **+/YES** button to confirm your selection. The current harmony type will be shown.
4. Use the **+/YES** or **–/NO** buttons to select a harmony type.
5. Press the **FUNCTION** button again to exit the function setting mode.

Master Tune

The pitch of the STN-2000 is automatically set to standard A440 pitch when the piano is turned on. The tuning feature makes it possible to tune the pitch of the instrument in fine intervals. Tuning can be accomplished over a range of +/–1 semitone in +/–64 steps.

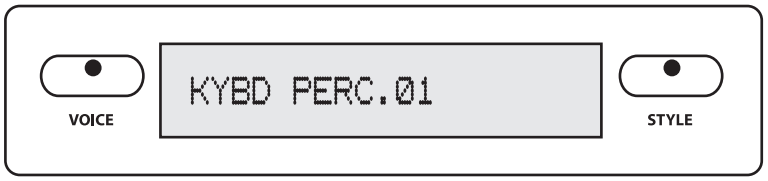


1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Master Tune" menu appears.
3. Press the **+/YES** button to show the tuning value.
4. Use the **+/YES** button to increase the value or the **–/NO** buttons to decrease the value. Press the **+/YES**, **–/NO** buttons simultaneously to recover the default setting of 00.
5. Press the **FUNCTION** button again to exit the function setting mode.

Drum Kit Selection (Keyboard Percussion)

In the Keyboard Percussion mode, the entire keyboard will play the percussion voices from the selected Drum Kit. There are ten drum kits that can be assigned. Kit 10 is a sound effects kit. Please see the "Drum Kit List" at the end of this manual for a complete listing. Select the Keyboard Percussion mode in the Function menu.

1. Press the **FUNCTION** button.
2. Press the **PAGE UP** or the **PAGE DOWN** buttons until the "Drum Kit" menu appears.
3. Press the **+/YES** button to enter the Keyboard Percussion mode.
4. Use the **+/YES**, **–/NO** or number pad to select drum kit 01 to 10.



NOTE: Pressing the -/NO key when KYBD PERC. 01 is selected will return the piano to regular Voice mode, and display the last selected voice. Pressing the +/YES key when KYBD PERC. 10 is selected will return the piano to regular Voice mode and display "Percussion OFF" until another kit is selected.

5. Press the **FUNCTION** button again to exit the function setting mode. If a kit is selected, the display will show "Percussion ON."

6. Use the **+/YES**, **–/NO** or number pad to change drum kit 01 to 10.
NOTE: Pressing the -/NO key when KYBD PERC. 01 is selected will return to regular Voice mode and display the last selected voice. Pressing the +/YES key when KYBD PERC. 10 is selected will return the piano to regular Voice mode and display "Percussion OFF." If no other kit is selected within 3 seconds, the display will return to the last selected voice.

7. To quickly exit the Keyboard Percussion mode, press any one of the Quick Select Voice keys.

Registration Memory

Registration Memory can recall particular settings of style, voice, chord and other parameters or features you have engaged. This piano has nine registration memories to hold your favorite settings so that they can be recalled quickly by pressing a button. The unit is equipped with a backup battery so your settings will not be lost when the power is turned off.

Save Registration

1. Set the voice, style, tempo, accompaniment mode, reverb effect and any other parameters that you wish to save.
2. Hold down the **USER REG** button.
3. Press one of the number pads 1-9. The display will show the current registration memory number with a "b-" prefix. Your panel setting will be saved into that registration memory button instantly.
4. Release the **USER REG** button.

Recall Registration

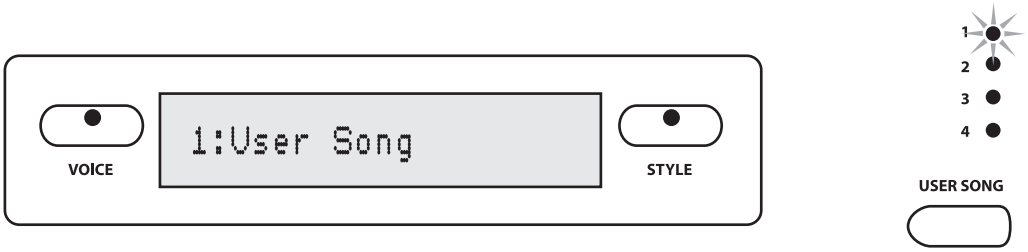
1. Press and release the **USER/REG** button to engage the registration memory mode, the indicator will light up.
2. Press one of the number pads 1-9 buttons, the stored setting will be recalled instantly and the display will show the memory number with a "b-" prefix. The relevant parameters will be set and the display will revert to the voice that has just been recalled.
3. To exit the registration function mode, press the **USER REG** button again. Its LED indicator will turn off.

Recorder

The STN-2000 features a three track recorder that allows you to record what you play on the keyboard and then play it back. Three tracks mean that you can "overdub" one part on top of another, using a different voice if you like. The recorder feature is a useful addition to any keyboard study program since it lets you hear exactly how you sound from the listener's perspective. It can also be just plain fun. This recorder is able to store four songs, each with up to 3-track recording. This recorded information is nonvolatile and therefore will not be lost when the power is turned off. All 3 tracks can playback separately or together as a complete song. The record function records all settings exactly as you selected and performed them.
NOTE: While it is possible to record in Layer mode, you cannot record in Lower mode.

Recording

1. **Prepare:** Prepare to record by setting the voice, style, tempo, reverb level, or other parameters as desired. These settings can be stored into registration memory for easy recall; please see the Registration Memory section for more information.
2. **Select a Song:** Press the **USER SONG** button repeatedly to select a song. The LED display above the **USER SONG** button will show the song number selected. This is where the recorded information will be stored.



3. **Select a track:** There are three tracks available for recording: one dedicated Accompaniment track and two Melody tracks. The Accompaniment track will record only the auto accompaniment events and chords just as they are played. The Melody tracks will record all notes. The tracks are assigned by engaging the **ACCOMP**, **MELODY 1** or **MELODY 2** buttons. Press and hold down the **REC** button, then press the track button that you want to record in. The corresponding track indicator LED will blink, and the four beat indicators will blink with the current tempo to show that the recorder is on standby.

NOTE: If you already have a recorded track in the selected song, the track indicator LED will also be lit and the recorded music will play as a reference for you while you record the new track. If you do not wish for previously recorded tracks to play while you are recording, press the corresponding track button to turn the indicator light off.

4. **Metronome:** Press the METRONOME button to enable the metronome as a reference when recording only Melody tracks. The metronome sound will not be recorded.

NOTE: If you use the metronome when recording the Accompaniment track, the metronome will play in place of the drum part of the auto accompaniment.

5. **Record:** Your performance can be recorded in the following ways:

RECORD A MELODY TRACK ONLY

If the **MELODY 1** or **MELODY 2** buttons are selected, the recording will begin as soon as you play the keyboard or press the **PLAY/STOP** button. It is suggested you turn off the accompaniment fingering mode when recording on a melody track alone. When the accompaniment mode is set to Fingered or Single, the auto accompaniment section of the keyboard will not be recorded although the notes are sounding.

RECORD THE ACCOMPANIMENT TRACK ONLY

With the accompaniment fingering mode engaged, recording will start as soon as a chord is recognized in the auto accompaniment section of the keyboard. An unrecognized chord in the fingered mode cannot start the recording. If the accompaniment fingering is off, only the drum part will be recorded in the **ACCOMP** track. Recording will start as soon as you press the **PLAY/STOP** button or play in the accompaniment section of the keyboard. Notes played on the Melody section of the keyboard will not be recorded in the auto accompaniment track.

RECORD THE ACCOMPANIMENT TRACK AND A MELODY TRACK

If you want to record a melody and the accompaniment at the same time, hold down the **REC** button, press the **ACCOMP** track button and a **MELODY** track button. Both track indicators will blink. Recording begins as soon as you start playing on any section of the keyboard, or press the **PLAY/STOP** button.
NOTE: The contents in a track will be erased as soon you start to record on the selected track. It will be replaced by the new data.

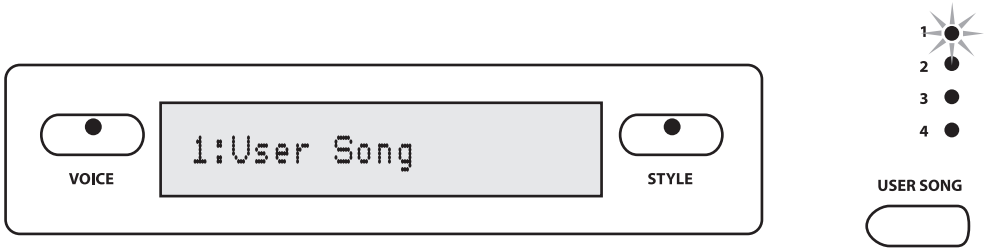
6. **Stop Recording:** Press the **START/STOP** button, the **PLAY/STOP** button, the **REC** button or a track button to stop recording. When the accompaniment track is being recorded, press the **INTRO/ENDING** button to stop the recording with an ending pattern in the accompaniment track.

NOTE: When the record memory is full, recording will stop automatically and "End" will appear on the display screen.

Playback

To listen to the passage that you just recorded, press the **PLAY/STOP** button.

1. Press the **USER SONG** button to select the song you want to play back. Each time you press the **USER SONG** button, the LED above the button will indicate which song is selected, and the LCD display will show the user song number.



2. After you have selected your desired user song, the track LED indicators will show which tracks contain recorded data. If you do not wish to hear any of the 3 tracks, press the corresponding **TRACK** button to turn that track off. Its LED indicator will turn off.
3. Press the **PLAY/STOP** button to hear the recorded track(s). The LED dots of the beat indicator will flash in consecutive order. You can change the tempo of your recorded track by pressing the **TEMPO** +/- buttons while the recording is being played back. You may also accompany the recorded playback on the keyboard while the recording is playing back.
4. Press the **PLAY/STOP** button to stop the playback. Playback will stop automatically when the recording reaches its end.
5. Press the **USER SONG** button to exit the user song mode. The user song indicator LEDs will turn off after USER SONG 4. The LCD display screen will revert to the currently selected instrument voice.

Erasing Tracks

To erase the music recorded on the tracks:

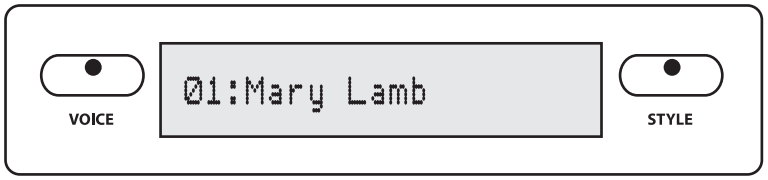
1. Press the **USER SONG** button to select the song you want to erase.
2. Press and hold the **REC** button.
3. Press the track button that you wish to erase while you continue to hold down the **REC** button. This will immediately erase the existing data from your previous recording.
4. Release the **REC** button (the track LED is blinking).
5. Press the **TRACK** button again (the track LED will go off).
6. Repeat Steps 2 through 5 until all the tracks that you desire are erased.
7. When the track has been properly erased, its **TRACK** button LED will not turn on when the **USER SONG** button is pressed. This indicates that there is no recorded information on this track.

Play Along Songs

There are 50 songs built into the STN-2000. These songs have separate left and right-hand parts that can be turned on and off as required so you can practice the corresponding part on the keyboard.

LISTENING TO THE ENTIRE SONG

1. Press the **SONG** button. The first song number and abbreviated name of the song will appear on the LCD display. Use the **+/YES**, **–/NO** buttons to select a song.



2. Press the **PLAY/STOP** button to hear both hand parts. The chords from the auto-accompaniment and the tempo will be shown on the display.

PRACTICING THE RIGHT HAND OF THE SELECTED SONG

1. Press the **SONG** button. The song LED will turn on.
2. Press the **RIGHT** button. The right LED will turn on.
3. Press the **PLAY/STOP** button. You will hear the metronome "count in" the song.
   You will then hear the left-hand part (Auto-Accompaniment part) and Drum part of your selected song. The chord playing from the auto-accompaniment and the tempo will be shown on the display.
4. Play the right-hand melody part of your selected song while the left-hand accompaniment part plays.
5. While playing, press the **METRONOME** button if you want to replace the Drum part of the auto-accompaniment by the metronome.
6. If you want to play slower or faster than the preset tempo, press the **TEMPO+** or **TEMPO–** button to adjust the tempo. Press **TEMPO+** and **TEMPO–** buttons simultaneously to return to the default tempo for the selected song.
7. After the song finishes, it will automatically repeat at the default tempo, unless the **PLAY/STOP** button is pressed or the song function is disengaged.

PRACTICING THE LEFT HAND OF THE SELECTED SONG

1. Follow steps 1-7 listed above, substituting the **LEFT** button wherever **RIGHT** button is mentioned.
   You will hear the right-hand part (Melody part) and the Drum part of your selected song. Play the chords for the auto-accompaniment part in the left-hand section of the keyboard.

NOTE: For the Play-Along songs, the Accompaniment chord mode is automatically set to "FINGERED."

PRACTICING BOTH HANDS OF THE SELECTED SONG

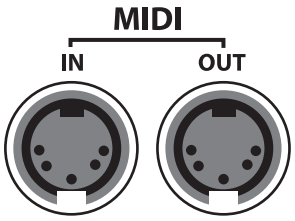
1. Press the **SONG** button. The song LED will turn on.
2. Press the **RIGHT** and **LEFT** buttons simultaneously. The right and left LEDs will turn on.
3. Press the **PLAY/STOP** button. You will hear the metronome "count in" the song. You will then hear the Drum part of your selected song. Press the **METRONOME** button if you want to replace the Drum part by the metronome.
4. If you want to play slower or faster than the preset tempo, press the **TEMPO+** or **TEMPO–** button to adjust the tempo. Press **TEMPO+** and **TEMPO–** buttons simultaneously to return to the default tempo for the selected song.
5. Play the left-hand (Accompaniment chords) and right-hand (Melody) parts of your selected song.

NOTE: For the Play-Along songs, the Accompaniment chord mode is automatically set to "FINGERED."

6. After the song finishes, it will automatically repeat at the default tempo unless the **PLAY/STOP** button is pressed or the song function is disengaged.

MIDI

MIDI stands for Musical Instrument Digital Interface. This is a world-wide standard communication interface that enables electronic musical instruments and computers (of all brands) to communicate with each other so that instructions and other data can pass between them. This exchange of information makes it possible to create a system of MIDI instruments and devices that offer far greater versatility and control than is available with isolated instruments. Whether you interface with computers, sequencers, expanders or other keyboards, your musical horizons will be greatly enhanced.



MIDI CONNECTION

The MIDI terminals are located on the left side panel of the piano.

1. **MIDI IN**: This terminal receives MIDI data from an external MIDI device.
2. **MIDI OUT**: This terminal transmits data from this instrument to other MIDI devices. The transmitted data includes the note and touch velocity produced while playing on the keyboard as well as voice changes, and recorded playback for the melody tracks. Demo songs and auto accompaniment are not transmitted.

NOTE: For more information regarding transmitted MIDI data, please see the next page and/or the MIDI implementation chart.

MIDI CHANNEL: The MIDI system in this unit has 16 channels numbered from 1-16. Each of the channels is responsible for a voice. When the instrument receives MIDI information from an external device, the active channel is determined by the control message. The transmission channels on this keyboard are fixed as follows:
Channel 1: Master voice (keyboard)
Channel 2: Layer voice (keyboard)
Channel 3: Lower voice (keyboard)
Channel 4: Bass in manual bass chord mode
Channel 7: Chord in manual bass chord mode
Channel 10: Percussion sound
Channel 12: Melody 1 playback, Master Voice
Channel 13: Melody 1 playback, Layer Voice
Channel 14: Melody 2 playback, Master Voice
Channel 15: Melody 2 playback, Layer Voice
Please see the MIDI Implementation Chart for more detail.

NOTE: When the USB is connected to a computer, all MIDI message will receive/transmit via USB.

MIDI Implementation Chart

Function	Transmitted	Recognized	Remark
Basic Channel	1 CH	1–16 CH	
Channel changed	1–4,7,10,12–15 CH	1–16 CH	
Default Mode	X	3	
Note Number	11–118	0–127	
Velocity: Note On	9nH,V=1–127	9nH,V=1–127	
Note Off	9nH,V=0	9nH,V=0 8nH	
Pitch Bender	X	O	
Control Change: 1	X	O	Modulation
5	X	O	Portamento value
7	X	O	Volume
10	X	O	Pan
11	X	O	Expression
64	O	O	Sustain
66	O	O	Sostenuto
67	O	O	Soft pedal
65	X	O	Portamento yes/no
80, 81	O	O	Reverb, chorus progam
91, 92	O	O	Reverb, chorus send level
98, 99	X	O	NRPNL, NRPNH
100, 101	X	X	RPNL, RPNH
121	O	O	Reset all controllers
123	O	O	All notes off
Program Change	0 – 127	0 –127	
System Exclusive	X	X	
Sys. Common: Song Select	X	X	
Sys. Common: Song Position	X	X	
System: Clock	X	X	
Real Time: Commands	X	X	

Mode 1: OMNI ON, POLY
Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY
Mode 4: OMNI OFF, MONO
O = Yes
X = No

Voice List

No.	Name	Display
PIANO		
001	Acoustic Grand Piano	Grand Piano
002	Bright Acoustic Piano	Bright Piano
003	Electric Grand Piano	Elec.G.Piano
004	Honky-Tonk Piano	Honky-Tonk
005	Electric Piano 1	Elec. Piano1
006	Electric Piano 2	Elec. Piano2
007	Harpsichord	Harpsichord
008	Clavichord	Clavichord
CHROMATIC PERCUSSION		
009	Celesta	Celesta
010	Glockenspiel	Glockenspiel
011	Music box	Music Box
012	Vibraphone	Vibraphone
013	Marimba	Marimba
014	Xylophone	Xylophone
015	Tubular Bells	TubularBells
016	Dulcimer	Dulcimer
ORGAN		
017	Drawbar Organ	Draw Organ
018	Percussive Organ	Percus Organ
019	Rock Organ	Rock Organ
020	Church Organ	ChurchOrgan
021	Reed Organ	Reed Organ
022	Accordion	Accordion
023	Harmonica	Harmonica
024	Tango Accordion	TangoAccordn
GUITAR		
025	Acoustic Nylon Guitar	Nylon Guitar
026	Acoustic Steel Guitar	Steel Guitar
027	Electric Jazz Guitar	Jazz Guitar
028	Electric Clean Guitar	Clean Guitar
029	Electic Muted Guitar	Mute Guitar
030	Overdriven Guitar	Overdrive
031	Distortion Guitar	Dist Guitar
032	Guitar Harmonics	GtrHarmonics
BASS		
033	Acoustic Bass	AcousticBass
034	Electric Bass (finger)	Finger Bass
035	Electric Bass (pick)	Pick Bass
036	Fretless Bass	FretlessBass
037	Slap Bass 1	SlapBass1
038	Slap Bass 2	SlapBass2
039	Synth Bass 1	Synth Bass1
040	Synth Bass 2	Synth Bass2

No.	Name	Display
STRINGS		
041	Violin	Violin
042	Viola	Viola
043	Cello	Cello
044	Contrabass	ContraBass
045	Tremolo Strings	TremStrings
046	Pizzicato Strings	PizzStrings
047	Orchestral Harp	OrchHarp
048	Timpani	Timpani
ENSEMBLE		
049	String Ensemble 1	StringEnsbl1
050	String Ensemble 2	StringEnsbl2
051	Synth Strings 1	SynthString1
052	Synth Strings 2	SynthString2
053	Choir Aahs	ChoirAahs
054	Voice Oohs	VoiceOohs
055	Synth Voice	SynthVoice
056	Orchestra Hit	OrchHit
BRASS		
057	Trumpet	Trumpet
058	Trombone	Trombone
059	Tuba	Tuba
060	Muted Trumpet	MutedTrumpet
061	French Horn	FrenchHorn
062	Brass Section	BrassSection
063	Synth Brass 1	SynthBrass1
064	Synth Brass 2	SynthBrass2
REED		
065	Soprano Sax	Soprano Sax
066	Alto Sax	Alto Sax
067	Tenor Sax	Tenor Sax
068	Baritone Sax	Baritone Sax
069	Oboe	Oboe
070	English Horn	English Horn
071	Bassoon	Bassoon
072	Clarinet	Clarinet
PIPE		
073	Piccolo	Piccolo
074	Flute	Flute
075	Recorder	Recorder
076	Pan Flute	Pan Flute
077	Bottle Blow	Bottle
078	Shakuhachi	Shakuhachi
079	Whistle	Whistle
080	Ocarina	Ocarina

Voice List

No.	Name	Display
SYNTH LEAD		
081	Lead 1 (square)	Square Lead
082	Lead 2 (sawtooth)	SawtoothLead
083	Lead 3 (caliope lead)	CaliopeLead
084	Lead 4 (chiff lead)	Chiff Lead
085	Lead 5 (charang)	Charang Lead
086	Lead 6 (voice)	Voice Lead
087	Lead 7 (fifths)	Fifth Lead
088	Lead 8 (bass + lead)	Bass+Lead
SYNTH PAD		
089	Pad 1 (new age)	New Age Pad
090	Pad 2 (warm)	Warm Pad
091	Pad 3 (polysynth)	PolySynthPad
092	Pad 4 (choir)	Choir Pad
093	Pad 5 (bowed)	Bowed Pad
094	Pad 6 (metallic)	Metallic Pad
095	Pad 7 (halo)	Halo Pad
096	Pad 8 (sweep)	Sweep Pad
SYNTH EFFECT		
097	FX 1 (rain)	Rain
098	FX 2 (soundtrack)	Sound Track
099	FX 3 (crystal)	Crystal
100	FX 4 (atmosphere)	Atmosphere
101	FX 5 (brightness)	Brightness
102	FX 6 (goblins)	Goblins
103	FX 7 (echoes)	Echoes
104	FX 8 (sci-fi)	Sci-Fi

No.	Name	Display
ETHNIC		
105	Sitar	Sitar
106	Banjo	Banjo
107	Shamisen	Shamisen
108	Koto	Koto
109	Kalimba	Kalimba
110	Bagpipe	Bagpipe
111	Fiddle	Fiddle
112	Shanai	Shanai
PERCUSSIVE		
113	Tinkle Bell	Tinkle Bell
114	Agogo	Agogo
115	Steel Drums	Steel Drum
116	Woodblock	Woodblock
117	Taiko Drum	Taiko Drum
118	Melodic Tom	Melodic Tom
119	Synth Drum	Synth Drum
120	Reverse Cymbal	ReversCymbal
SOUND EFFECT		
121	Guitar Fret Noise	Fret Noise
122	Breath Noise	Breath Noise
123	Seashore	Seashore
124	Bird Tweet	Bird Tweet
125	Telephone Ring	Telephone
126	Helicopter	Helicopter
127	Applause	Applause
128	Gunshot	Gunshot

NOTE: For voices from 001 - 128 in the table, the "No." is the displayed voice number. The MIDI program number for any voice listed is one less than the display number. For example voice 001 Acoustic Grand Piano MIDI program number is 000, voice 002 Bright Acoustic Piano MIDI program number is 001, and so forth.

Voice List

More ethnic Asian Instruments have been added to the voice list as shown below.

No.	Name	Display	Prog. Change	Bank
ASIAN FOLK INSTRUMENTS				
129	Yangquin	Yangqin	15	1
130	Sanxian	Pipa	106	1
131	Zheng	Zheng	107	1
132	Erhu	Erhu1	110	1
133	Banhu	Banhu	0	1
134	Suona	Suona	1	1
135	Sheng	Sheng	2	1
136	Dizi	Dizi	3	1
137	Erhu + Yangqin	ErhuYangqin2	7	1
138	Dizi + Zheng	DiziZheng2	11	1

NOTE: When the touch sensitivity is in the "Soft," "Normal," or "Hard," mode, voice No. 137 will sound as Erhu when a key is struck softly, and as Yangqin when the key is struck hard. If the touch response is fixed, voice No. 137 will always sound as Yangqin. Voice No. 138 will sound as Zheng when playing keys below C4, and as Dizi when playing keys C4 and above.

Style List

No.	Name
SWING	
00.	Swing
01.	Swingin'Organ
02.	Swing Trio
03.	Slow Swing
04.	Dixie
05.	Jazz
06	Lounge
07.	Shuffle Blues
08.	Blues
R&B	
09.	Gospel 1
10.	Gospel 2
11.	Reggae 1
12.	Reggae 2
13.	Motown
14.	Shuffle
15.	R&B 1
16.	R&B 2
17.	R&B Shuf
POP	
18.	Pop 1
19.	Pop 2
20.	Pop 3
21.	8 Beat Pop 1
22.	8 Beat Pop 2
23.	8 Beat Pop 3
24.	Pop16
25.	Pop Acoustic
26.	EasyPop
27.	Funky Pop
28.	Disco Pop
29.	Slow Groove
30.	Florida
31.	Folk 1
32.	Folk 2
33.	Funky

No.	Name
DISCO	
34.	Disco
35.	Disco Dance 1
36.	Disco Dance 2
37.	Disco Shuffle
38.	Disco Groove
39.	House
40.	Dance 1
41.	Dance Pop 1
42.	Dance Pop 2
43.	80's Dance
44.	Dance 2
45.	Techno
46.	Rap
ROCK	
47.	Rock1
48.	Rock2
49.	Rock3
50.	Rock n Roll 1
51.	Rock n Roll 2
52.	Surf Rock
53.	Jerry
BOSSA	
54.	Bossa Nova
55.	Bossa Nova 2
56.	Pop Bossa 1
57.	Pop Bossa 2
58.	Salsa
59.	Tango
60.	Merenque
LATIN	
61.	Rumba
62.	Beguine
63.	Samba
64.	Chacha
65.	Latin 1
66.	Latin 2

No.	Name
OLDIES	
67.	Hawaiian
68.	Hula
69.	Boogie
70.	Fox Trot
71.	Ragtime
72.	Waltz 1
73.	Waltz 2
74.	Classic 1
75.	Classic 2
BALLAD	
76.	Ballad
77.	50's Ballad
78.	Power Ballad
79.	Jazz Ballad
80.	Bolero
81.	Slow 16
ACOUSTIC	
82.	Kids 1
83.	Kids 2
84.	March 1
85.	March 2
86.	March 3
87.	Polka 1
88.	Polka 2
89.	MexPolka
90.	NewAge
ROCK	
91.	Country
92.	Country Train
93.	Bluegrass
94.	SlowBlues
BIG BAND	
95.	Latin Big Band
96.	Broadway1
97.	Broadway2
98.	Big Band
99.	Mambo Band

Chord Fingering Guide

Chord	Display	Intervals
Major	M	1-3-5
Major sixth	M6	1-3-5-6
Major sixth add ninth	6 9	1-2-3-(5)-6
Major seventh	M7	1-3-(5)-7
Major add ninth	M add9	1-2-3-5
Major seventh ninth	M 9	1-2-3-(5)-7
Major seventh sharp eleventh	M7 #11	1-(2)-3-#4-(5)-7
Minor	m	1-♭3-5
Minor sixth	m6	1-♭3-5-6
Minor seventh	m7	1-♭3-(5)-♭7
Minor seventh flatten fifth	m7b5	1-♭3-♭5-♭7
Minor add ninth	m add9	1-2-♭3-5
Minor seventh add ninth	m 9	1-2-♭3-(5)-♭7
Minor seventh add eleventh	m 11	1-(2)-♭3-4-5-(♭7)
Minor major seventh	mM7	1-♭3-(5)-7
Minor major seventh add ninth	mM9	1-2-♭3-(5)-7
Seventh	7	1-3-(5)-♭7
Seventh flatted fifth	7 b5	1-3-♭5-♭7
Seventh flatted ninth	7 b9	1-♭2-3-(5)-♭7
Seventh add ninth	7 9	1-2-3-(5)-♭7
Seventh sharp ninth	7 #9	1-#2-3-(5)-♭7
Seventh sharp eleventh	7 #11	1-2-3-#4-(5)-♭7
Seventh thirteenth	7 13	1-3-(5)-6-♭7
Seventh flatted thirteenth	7 b13	1-3-5-♭6-♭7
Diminished	dim	1-♭3-♭5
Diminished seventh	dim7	1-♭3-♭5-6
Augmented	aug	1-3-#5
Seventh augmented	7aug	1-3-#5-♭7
Major seventh augmented	M7aug	1-3-#5-7
Suspended fourth	sus4	1-4-5
Seventh suspend fourth	7sus4	1-4-5-♭7

NOTES: The intervals listed in parentheses can be omitted. The listed chord fingerings are all in root note position, other inversions can be used with the exception of:
1. The M6 chords are only recognized in root note position. All other inversions are interpreted as m7.
2. The 6 9 chords are only recognized in root note position. All other inversions are interpreted as m 11.
3. The m6 chords are only recognized in root note position. All other inversions are interpreted as m7 b5.
4. With aug and dim7 chords, the lowest note played is assumed to be the root.
These inversions do not apply to the Piano mode.

Drum Kit List 1

No. – Key	Standard (0) P – 1: Standard	Room (8) P – 2: Room	Power (16) P – 3: Power	Electronic (24) P – 4: Electronic	TR-808 (25) P – 5: TR-808
27 – Eb0	High Q	High Q	High Q	High Q	High Q
28 – E0	Slap	Slap	Slap	Slap	Slap
29 – F0	Scratch Push	Scratch Push	Scratch Push	Scratch Push	Scratch Push
30 – F#0	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull	Scratch Pull
31 – G0	Stick	Stick	Stick	Stick	Stick
32 – G#0	Square Click	Square Click	Square Click	Square Click	Square Click
33 – A0	Metronome Click	Metronome Click	Metronome Click	Metronome Click	Metronome Click
34 – Bb0	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell
35 – B0	Kick Drum 2	Kick Drum 2	Kick Drum 2	Kick Drum 2	Kick Drum 2
36 – C1	Kick Drum 1	**Room Kick Drum***	**Power Kick Drum***	**Elec Kick Drum***	**Synth Kick Drum 1***
37 – C#1	Side Stick	Side Stick	Side Stick	Side Stick	**Synth Side Stick***
38 – D1	Snare Drum 2	Snare Drum 2	**Power Snare Drum***	**Elec Snare Drum***	**Synth Snare Drum***
39 – Eb1	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
40 – E1	Snare Drum 1	Snare Drum 1	Snare Drum 1	**Power Snare Drum***	Snare Drum 1
41 – F1	Low Floor Tom 2	**Room Low Floor Tom 2***	**Room Low Floor Tom 2***	**Elec Low Floor Tom 2***	**Synth Low Floor Tom 2***
42 – F#1	Close Hi-hat	Close Hi-hat	Close Hi-hat	Close Hi-hat	**Synth Close Hi-hat***
43 – G1	Low Floor Tom 1	**Room Low Floor Tom 1***	**Room Low Floor Tom 1***	**Elec Low Floor Tom 1***	**Synth Low Floor Tom 1***
44 – G#1	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat	Pedal Hi-hat	Synth Pedal Hi-hat
45 – A1	Low Tom	**Room Low Tom***	**Room Low Tom***	**Elec Low Tom***	**Synth Low Tom***
46 – Bb1	Open Hi-hat	Open Hi-hat	Open Hi-hat	Open Hi-hat	**Synth Open Hi-hat***
47 – B1	Low-mid Tom	**Room Low-mid Tom***	**Room Low-mid Tom***	**Elec Low-mid Tom***	**Synth Low-mid Tom***
48 – C2	Hi-mid Tom	**Room Hi-mid Tom***	**Room Hi-mid Tom***	**Elec Hi-mid Tom***	**Synth Hi-mid Tom***
49 – C#2	Crash Cymbal 1	Crash Cymbal 1	Crash Cymbal 1	Crash Cymbal 1	**Synth Crash Cymbal 1***
50 – D2	High Tom	**Room High Tom***	**Room High Tom***	**Elec High Tom***	**Synth High Tom***
51 – Eb2	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1	Ride Cymbal 1
52 – E2	Chinese Cymbal	Chinese Cymbal	Chinese Cymbal	**Reverse Cymbal***	Chinese Cymbal
53 – F2	Ride Bell	Ride Bell	Ride Bell	Ride Bell	Ride Bell
54 – F#2	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
55 – G2	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal
56 – G#2	Cowbell	Cowbell	Cowbell	Cowbell	**Synth Cowbell***
57 – A2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2	Crash Cymbal 2
58 – Bb2	Vibra Slap	Vibra Slap	Vibra Slap	Vibra Slap	Vibra Slap
59 – B2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2	Ride Cymbal 2
60 – C3	Hi Bongo	Hi Bongo	Hi Bongo	Hi Bongo	Hi Bongo
61 – C#3	Low Bongo	Low Bongo	Low Bongo	Low Bongo	Low Bongo
62 – D3	Mute Conga	Mute Conga	Mute Conga	Mute Conga	**Synth Mute Conga***
63 – Eb3	Hi Conga	Hi Conga	Hi Conga	Hi Conga	**Synth Hi Conga***
64 – E3	Low Conga	Low Conga	Low Conga	Low Conga	**Synth Low Conga***
65 – F3	High Timbale	High Timbale	High Timbale	High Timbale	High Timbale
66 – F#3	Low Timbale	Low Timbale	Low Timbale	Low Timbale	Low Timbale
67 – G3	High Agogo	High Agogo	High Agogo	High Agogo	High Agogo
68 – G#3	Low Agogo	Low Agogo	Low Agogo	Low Agogo	Low Agogo
69 – A3	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
70 – Bb3	Maracas	Maracas	Maracas	Maracas	**Synth Maracas***
71 – B3	Short Whistle	Short Whistle	Short Whistle	Short Whistle	Short Whistle
72 – C4	Long Whistle	Long Whistle	Long Whistle	Long Whistle	Long Whistle
73 – C#4	Short Guiro	Short Guiro	Short Guiro	Short Guiro	Short Guiro
74 – D4	Long Guiro	Long Guiro	Long Guiro	Long Guiro	Long Guiro
75 – Eb4	Claves	Claves	Claves	Claves	**Synth Claves***
76 – E4	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block
77 – F4	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block
78 – F#4	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica
79 – G4	Open Cuica	Open Cuica	Open Cuica	Open Cuica	Open Cuica
80 – G#4	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle
81 – A4	Open Triangle	Open Triangle	Open Triangle	Open Triangle	Open Triangle
82 – Bb4	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
83 – B4	Shaker	Shaker	Shaker	Shaker	Shaker
84 – C5	Belltree	Belltree	Belltree	Belltree	Belltree
85 – C#5	Castanets	Castanets	Castanets	Castanets	Castanets
86 – D5	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo	Mute Surdo
87 – Eb5	Open Surdo	Open Surdo	Open Surdo	Open Surdo	Open Surdo

***Sounds in BOLD differ from the standard kit.**

Drum Kit List 2

No. – Key	Jazz (32) P – 6: Jazz	Brush (40) P – 7: Brush	Orchestra (48) P – 8: Orchestra	Chinese (58) P – 9: Chinese	Effects (56) P – 10: SFX
27 – Eb0	High Q	High Q	**Close Hi-hat***	High Q	–
28 – E0	Slap	Slap	**Pedal Hi-hat***	Slap	–
29 – F0	Scratch Push	Scratch Push	**Open Hi-hat***	Scratch Push	–
30 – F#0	Scratch Pull	Scratch Pull	**Ride Cymbal***	Scratch Pull	–
31 – G0	Stick	Stick	Stick	Stick	–
32 – G#0	Square Click	Square Click	Square Click	Square Click	–
33 – A0	Metronome Click	Metronome Click	Metronome Click	Metronome Click	–
34 – Bb0	Metronome Bell	Metronome Bell	Metronome Bell	Metronome Bell	–
35 – B0	**Jazz Bass Drum 1***	**Jazz Bass Drum 1***	Kick Drum 2	Kick Drum 2	–
36 – C1	**Jazz Bass Drum 2***	**Jazz Bass Drum 2***	**Orche Bass Drum 1***	Kick Drum 1	–
37 – C#1	Side Stick	Side Stick	Side Stick	Side Stick	–
38 – D1	Snare Drum 2	**Brush Tap***	**Orche Snare Drum 2***	Snare Drum 2	–
39 – Eb1	Hand Clap	**Brush Slap***	**Castanets***	Hand Clap	**High-Q***
40 – E1	Snare Drum 1	**Brush Swirl***	**Orche Snare Drum 1***	Snare Drum 1	**Slap***
41 – F1	Low Floor Tom 2	Low Floor Tom 2	**Timpani F***	Low Floor Tom 2	**Scratch Push***
42 – F#1	Close Hi-hat	Close Hi-hat	**Timpani F#***	Close Hi-hat	**Scratch Pull***
43 – G1	Low Floor Tom 1	Low Floor Tom 1	**Timpani G***	Low Floor Tom 1	**Sticks***
44 – G#1	Pedal Hi-hat	Pedal Hi-hat	**Timpani G#***	Pedal Hi-hat	**Square Click***
45 – A1	Low Tom	Low Tom	**Timpani A***	Low Tom	**Metronome Click***
46 – Bb1	Open Hi-hat	Open Hi-hat	**Timpani A#***	Open Hi-hat	**Metronome Bell***
47 – B1	Low-mid Tom	Low-mid Tom	**Timpani B***	Low-mid Tom	**Guitar Slide***
48 – C2	Hi-mid Tom	Hi-mid Tom	**Timpani C***	Hi-mid Tom	**Gtr. Cut Noise1 (down)***
49 – C#2	Crash Cymbal 1	Crash Cymbal 1	**Timpani C#***	Crash Cymbal 1	**Gtr. Cut Noise2 (up)***
50 – D2	High Tom	High Tom	**Timpani D***	High Tom	**Bass Slap***
51 – Eb2	Ride Cymbal 1	Ride Cymbal 1	**Timpani D#***	Ride Cymbal 1	**Key Click***
52 – E2	Chinese Cymbal	Chinese Cymbal	**Timpani E***	Chinese Cymbal	**Laughing***
53 – F2	Ride Bell	Ride Bell	**Timpani F***	Ride Bell	**Screaming***
54 – F#2	Tambourine	Tambourine	Tambourine	Tambourine	**Punch***
55 – G2	Splash Cymbal	Splash Cymbal	Splash Cymbal	Splash Cymbal	**Heart Beat***
56 – G#2	Cowbell	Cowbell	Cowbell	Cowbell	**Footstep 1***
57 – A2	Crash Cymbal 2	Crash Cymbal 2	**Orche Crash Cymbal***	Crash Cymbal 2	**Footstep 2***
58 – Bb2	Vibra Slap	Vibra Slap	Vibra Slap	Vibra Slap	**Applause***
59 – B2	Ride Cymbal 2	Ride Cymbal 2	**Orche Cymbal***	Ride Cymbal 2	**Door Creaking***
60 – C3	Hi Bongo	Hi Bongo	Hi Bongo	Hi Bongo	**Door Closing***
61 – C#3	Low Bongo	Low Bongo	Low Bongo	Low Bongo	**Scratch***
62 – D3	Mute Conga	Mute Conga	Mute Conga	Mute Conga	**Wind Chime***
63 – Eb3	Hi Conga	Hi Conga	Hi Conga	Hi Conga	**Car Engine Start***
64 – E3	Low Conga	Low Conga	Low Conga	Low Conga	**Car Break***
65 – F3	High Timbale	High Timbale	High Timbale	High Timbale	**Car Pass***
66 – F#3	Low Timbale	Low Timbale	Low Timbale	Low Timbale	**Car Crash***
67 – G3	High Agogo	High Agogo	High Agogo	High Agogo	**Siren***
68 – G#3	Low Agogo	Low Agogo	Low Agogo	Low Agogo	**Train***
69 – A3	Cabasa	Cabasa	Cabasa	Cabasa	**Jet Take-off***
70 – Bb3	Maracas	Maracas	Maracas	Maracas	**Helicopter***
71 – B3	Short Whistle	Short Whistle	Short Whistle	Short Whistle	**Starship***
72 – C4	Long Whistle	Long Whistle	Long Whistle	Long Whistle	**Gun Shot***
73 – C#4	Short Guiro	Short Guiro	Short Guiro	Short Guiro	**Machingun***
74 – D4	Long Guiro	Long Guiro	Long Guiro	Long Guiro	**Laser Gun***
75 – Eb4	Claves	Claves	Claves	Claves	**Explosion***
76 – E4	Hi Wood Block	Hi Wood Block	Hi Wood Block	Hi Wood Block	**Dog***
77 – F4	Low Wood Block	Low Wood Block	Low Wood Block	Low Wood Block	**Horse Gallop***
78 – F#4	Mute Cuica	Mute Cuica	Mute Cuica	Mute Cuica	**Birds***
79 – G4	Open Cuica	Open Cuica	Open Cuica	Open Cuica	**Rain***
80 – G#4	Mute Triangle	Mute Triangle	Mute Triangle	Mute Triangle	**Thunder***
81 – A4	Open Triangle	Open Triangle	Open Triangle	Open Triangle	**Wind***
82 – Bb4	Cabasa	Cabasa	Cabasa	**Chi***	**Sea Shore***
83 – B4	Shaker	Shaker	Shaker	**Da***	**Stream***
84 – C5	Belltree	Belltree	Belltree	**Gong***	**Bubble***
85 – C#5	Castanets	Castanets	Castanets	**Xiao cha 1***	–
86 – D5	Mute Surdo	Mute Surdo	Mute Surdo	**Dagu***	–
87 – Eb5	Open Surdo	Open Surdo	Open Surdo	**Xiao cha mute 1***	–

***Sounds in BOLD differ from the standard kit.**

Drum Kit List 3

NOTE: For the drum kit lists on the previous two pages, the MIDI number is in parenthesis following the kit name. The Drum kit name and number that are shown on the LCD display are listed below the kit name.

The "No." refers to MIDI note number, and "Key" refers to the key on the keyboard.

Keys from A1 to DO sound as Low Timpani, except for in Kit 10, the effects kit.

Keys from E5 to C7 sound the same as the D#0 to B1 keys, except for Kit 9, the Chinese kit.

A list of the sounds of E5 to C6 for Kit 9, Chinese kit are listed below.

KIT 9 COMPLEMENT	
No.	Key Sound
88-E5	Hey!
89-F5	Pai gu Low
90-F#5	Xiao cha 2
91-G5	Pai gu Mid
92-G#5	Xiao cha mute 2
93-A5	Pai gu Hi
94-Bb5	Jing Luo mute
95-B5	Jing Luo
96-C6	Xiao Luo

Specifications

KEYBOARD
88-note, hammer-action keyboard

MAX. POLYPHONY: 32

VOICES
138 Voices
(Including ten Asian folk instrument voices)
Five quick select voice buttons and 2 banks

VOICE MODE
Layer (dual) voice
Lower (split) voice

VOICE EFFECTS
Reverb
Chorus

SET UP
Power On/Off
Main Volume Control: Min-Max
Accomp Volume Control: Min-Max

NUMERIC PAD: 12 keys

DISPLAY: 16-Character LCD

REGISTRATION MEMORY: 9

DEMONSTRATION: Ten songs

RECORDING: Four songs, 3 track recording

OVERALL CONTROL
Transpose
Tempo
Touch response: soft, normal, hard, fixed
Voice split point
Accompaniment split point

AUTO BASS CHORD MODE
Single
Fingered
Piano
Off

AUTO-ACCOMPANIMENT STYLE
100 Auto-accompaniment styles
Five quick select style buttons and 2 banks

ACCOMPANIMENT CONTROL
Synchro start
Start/Stop
Introduction/Ending
Fill-In
Variation
Metronome
Auto harmony (four types)

PLAY ALONG SONGS
50 songs

FUNCTION
Reverb level
Chorus level
Touch Sensitivity
Split point for voice
Split point for auto accompaniment
Master Tune
Drum kit selection
Harmony type selection

AUXILIARY JACKS
Headphone x 2
Line Out
Line In
USB Device Port
Power In
MIDI In/Out/Through

PEDALS
Sustain Pedal
Sustenuto Pedal
Soft Pedal

VOLTAGE: AC 120V

AMPLIFIER: 20W x 2

DIMENSIONS
54.2 x 20 x 33.9 inches
(1377mm x 510mm x 862mm)

WEIGHT: 154.3lbs/70 Kg

STANDARD ACCESSORIES
Music rest
Owner's manual
Play Along Song Book

OPTIONAL ACCESSORIES
Padded Bench

ARIUS

DIGITAL PIANO